EUROPEAN PATENT OFFICE



Patent Abstracts of Japan

PUBLICATION NUMBER PUBLICATION DATE

2000307179 02-11-00

APPLICATION DATE:

: 21-04-99

APPLICATION NUMBER

11113569

APPLICANT: FUJI PHOTO FILM CO LTD;

INVENTOR: HIUGA HIROAKI;

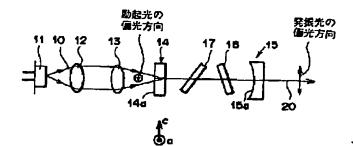
INT.CL.

: H01\$ 3/094 H01\$ 3/108 H01\$ 3/16

TITLE

: SEMICONDUCTOR LASER

STIMULATING SOLID-STATE LASER



ABSTRACT: PROBLEM TO BE SOLVED: To realize a semiconductor laser stimulating solid-state laser which is capable of preventing a laser beam from changing to an ellipse in cross section, where an Nd:YVO4 crystal is used as a laser medium in the solid-state laser.

> SOLUTION: A semiconductor laser stimulating solid-state laser excites an Nd:YVO4 crystal 14 by a laser beam (exciting beam) 10 emitted from a semiconductor laser 11, where the Nd:YVO4 crystal 14 is so arranged as to make its axis a parallel in the direction of rectilinear polarization of the exciting beam 10, a polarizing element 17 which makes the direction of rectilinear polarization of the oscillation beam 20 of the solidstate laser parallel with the axis c of the Nd:YVO4 crystal 14 is inserted in a resonator, and the axes a and c share in absorption and oscillation respectively.

COPYRIGHT: (C)2000,JPO

BEST AVAILABLE COPY